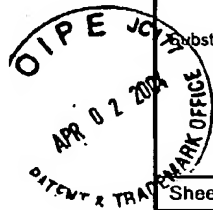


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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/663,662
		Filing Date	September 17, 2003
		First Named Inventor	Yasuko FUKUZAWA
		Art Unit	2186
		Examiner Name	
Sheet 1 of 1	Attorney Docket Number	500.36172VC3	

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
		US-				
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FOREIGN PATENT DOCUMENTS							
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)					
TQN		JP - 07-114444		05-02-1995	HITACHI LTD.		
TQN		JP - 06-067817		03-11-1994	FUJITSU LTD.		

Examiner Signature	<i>Inyoung Zang</i>	Date Considered	06/03/2004
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard St.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	Not yet assigned (Division of 10/326,978, filed December 24, 2003)
		Filing Date	Even date herewith
		First Named Inventor	Yasuko FUKUZAWA
		Art Unit	2182
		Examiner Name	Tanh Q. Nguyen
Sheet	1	of	2
		Attorney Docket Number	500.36172VC3

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
TQN	AA	US- 4,768,150		08/30/1988	Chang et al.	
	AB	US- 4,864,492		09/05/1989	Blakely-Fogel et al.	
	AC	US- 4,941,084		07/10/1990	Terada et al.	
	AD	US- 4,947,367		08/ 1990	Chang et al.	
	AE	US- 5,051,887		09/24/1991	Berger et al.	
	AF	US- 5,155,845		10/13/1992	Beal et al.	
	AG	US- 5,251,318		10/05/1993	Nitta et al.	
	AH	US- 5,261,080		11/09/1993	Khoyl et al.	
	AI	US- 5,313,617		05/17/1994	Nakano et al.	
	AJ	US- 5,349,656		09/20/1994	Kaneko et al.	
	AK	US- 5,388,013		02/07/1995	Nakamura	
	AL	US- 5,394,534		02/28/1995	Kulakowski et al.	
	AM	US- 5,504,882		04/ 1996	Chai et al.	
	AN	US- 5,530,819		06/25/1996	Day, III et al.	
	AO	US- 5,535,372		07/09/1996	Benhasse et al.	
	AP	US- 5,546,536		08/ 1996	Davis et al.	
	AQ	US- 5,546,541		08/ 1996	Drew et al.	
	AR	US- 5,568,628		10/22/1996	Satoh et al.	
	AS	US- 5,613,100		03/18/1997	Anezaki	
	AT	US- 5,630,092		05/13/1997	Carrelro et al.	
	AU	US- 5,655,140		08/05/1997	Haddock	
	AV	US- 5,684,144		09/02/1997	Yanal et al.	
	AW	US- 5,680,580		10/ 1997	Beardsley et al.	
	AX	US- 5,680,640		09/01/1995	Ofek et al.	
	AY	US- 5,692,155		11/25/1997	Isklyan et al.	
	AZ	US- 5,708,828		01/13/1998	Coleman	
	BA	US- 5,721,957		02/24/1998	Huang et al.	
	BB	US- 5,724,542		03/03/1998	Taroda et al.	

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Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
TQN	BC	JP-04-326420	11-16-1992			
TQN	BD	JP-07-152491	06-16-1995			

Examiner Signature	<i>Tanh Q. Nguyen</i>	Date Considered	06/03/2004
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		Application Number	Not yet assigned (Division of 10/326,978, filed December 24, 2003)
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Filing Date	Even date herewith
		First Named Inventor	Yasuko FUKUZAWA
		Art Unit	2182
		Examiner Name	Tanh Q. Nguyen
Sheet	2	of	2
		Attorney Docket Number	500.36172VC3

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
TQN	BE	US-	5,734,818	03/31/1998	Kern et al.	
	BF	US-	5,745,789	04/ /1998	Kakuta	
	BG	US-	5,758,125	05/26/1998	Misinaï et al.	
	BH	US-	5,778,189	07/07/1998	Kimura et al.	
	BI	US-	5,812,843	09/22/1998	Yamazaki et al.	
	BJ	US-	5,835,939	11/10/1998	Kurokawa et al.	
	BK	US-	5,860,088	01/12/1999	Benhasse et al.	
	BL	US-	5,875,479	02/23/1999	Blount et al.	
	BM	US-	5,884,310	03/16/1999	Brichta et al.	
	BN	US-	5,886,841	03/23/1999	Kikuchi	
	BO	US-	5,903,913	05/ /1999	Ofer et al.	
	BP	US-	5,978,890	11/02/1999	Ozawa et al.	
	BQ	US-	6,009,498	12/28/1999	Kumasawa et al.	
	BR	US-	6,041,391	03/21/2000	Kanda et al.	
	BS	US-	6,044,444	03/28/2000	Ofek	
	BT	US-	6,073,209	06/06/2000	Bergsten	
	BU	US-	6,081,828	06/27/2000	Masuoka et al.	
	BV	US-	6,098,129	08/ /2000	Fukusawa et al.	
	BW	US-	6,108,748	08/22/2000	Ofek et al.	
	BX	US-	6,115,797	09/05/2000	Kanda et al.	
	BY	US-	6,529,976	03/ /2003	Fukuzawa et al.	

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>2</sup>
TQN	BZ	IBM Technical Disclosure Bulletin, Vol. 38, No. 06, June 1995, "High Performance Cooperative Count Key Data/Fixed Block Conversion Mechanism", pp. 333-335			
↓	CA	IBM Technical Disclosure Bulletin, Vol. 35, No. 3, August 1992, "Centralized and Rapid Backup/Restore For Work Lan File Services/VM", pp. 286-289			
	CB	Fujitsu Scientific & Technical Journal 31 (1995) June, No. 1. Kawasaki, JP "Storage Management Software for Mainframe and UNIX", By: Keiji Suzuki, et al. pp. 36-44			
	CC	Gelb, "System-managed storage," IBM Systems Journal, Vol. 28, No. 1, 1989, pp. 77-103			

Examiner Signature		Date Considered	06/03/2004
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